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TITLE : MANUFACTURE OF PASTED ZINC CATHODE

ABSTRACT : PURPOSE: To simplify the manufacturing process of a pasted zinc electrode, by making the alloying of zinc with an additive to be carried out coincidentally with the formation of a paste which consists of the former zinc and the additive.

CONSTITUTION: Zinc powder is added with both an additive, an aqueous solution which contains indium ions and lead ions, for example, an aqueous indium chloride-lead nitride solution which contains 3% of lead and 0.1% of indium, and polyvinyl alcohol as a viscous agent. The mixture is kneaded before it is stirred to make it undergo a reaction (alloying), a paste being prepared. After that, the paste is placed in a mold before it is dried, thus a zinc cathode being obtained. The drying of the paste vaporizes the water, the zinc-indium-lead alloy powder is converted into a paste, and thereby the mechanical strength of the zinc cathode is increased.

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